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DESCRIPTORS: *Nitrogen compounds, Oxides,
*Ozone, Chemical reactions, Pressure, Photographic
analysis, Decomposition, Oxidation.

The reaction between nitrogen pentoxide and ozone
was investigated in an apparatus which permitted
photographic measurement of the reaction mixture and
at the same time measuring the pressure. The con-
centrations of N_2O_5 and O_3 were varied to the widest
extent ($N_2O_5 = 1:120$, $O_3 = 1:200$). We suc-
ceeded in setting up an equation which represents the
reaction course exactly, and in finding a scheme which
leads to this equation. (Author)

63-10602

I. Schumacher, H. J.
II. Sprenger, G.

(Chemistry--Inorganic,
TT, v. 10, no. 1)
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Schumacher, H. J. and Sprenger, G.
THE EXISTENCE OF HIGHER NITROGEN OXIDES.
24 Oct 60, 9p. 25 refs.
Order from SLA \$1.10

63-10498

Trans. of Angew[andte] Chem[ie] (Germany) 1929,
v. 42, p. 697-700.

DESCRIPTORS: *Oxides, *Nitrogen compounds,
Oxidation, Spectroscopy, Ozone, Decomposition,
Reaction kinetics.

(Chemistry--Physical, TT, v. 9, no. 12)

63-10498

- I. Schumacher, H. J.
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The Operation of the Low-Shift Blast-Furnace,
by Heinz Schumacher, 16 pp.

GERMAN, per, Stahl und Eisen, Vol LXXIII, No 5,
1953, pp 257-266.

SLA 60-13242

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Schumacher, H. J.
MECHANISM OF THE THERMAL REACTION
BETWEEN CHLORINE AND OZONE. 18 Jan 61, 19p.
8 refs.
Order from SLA \$1.60 63-10549

Trans. of Z[eitschrift für] Phys[ikalische]
Chem[ie] Frankfurt (West Germany) 1957, [Neue folge]
v. 13, p. 353-367.

DESCRIPTORS: Reaction kinetics, *Chlorine,
*Ozone, *Thermochemistry, Decomposition,
Quantitative analysis, Chemical reactions, Heat of
activation.

A complete scheme is given for the reaction between
chlorine and ozone, in which allowance is made for
the chlorine trioxide decomposition occasioned by the
chlorine heptoxide formation. Experiments are
(Chemistry--Physical, TT, v. 10, no. 2) (over)

63-10549

I. Schumacher, H. J.

Office of Technical Services

A Kinetic Study of the Reaction F_2-2ClO_2 , or $2FCIO_2$,
by P. J. Aymonino, J. # # E. Sicre, H. J. Schumacher,
32 pp. (AF 713207).

Full tr

SPANISH, per, *Anales de la Asociacion Quimica Ar-*
gentina, Vol XLIII, No 207, Mar 1955, pp 26-54.

ATIC P-TS-8886/V

Scientific - Chemistry
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The Chemical Reaction of Fluorine and Chlorine
Monoxide (Cl_2O_2), by A. J. Arvia, W. H.
Carnahan, H. J. Schwanen, 2 pp. (AF 713307)

WILKIN, per, Argonne's Chem, Vol XVII, No 19/20,
Jul 1955, p 616.

AFIC P-TS-8881/III

Sci - Chemistry
Oct 1956

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Limits of the Hydrogen-Air Mixture, by E. J. Schumacher
B. Baum, 14 pp.

Full translation.

SPANISH, Faculty of Chemistry and Pharmacy, Research
Institute La Plata.

CIA/FDD Z-25

NE - Spain

Scientific - Chemistry, Explosive limits, Hydrogen-air
mixture

A 1-597

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The Thermal Stability of Chloryl Fluoride (ClO_2).
by H. J. Schumann, W. H. Easualdo, 2 pp. - 2
(AN 713207)

GERMAN, pop, Angewandte Chemie, Vol 127, No 8,
Mar 1955, p 231. O/A 56. 717

ATTC F-14-3685/III

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Principal Sections of *History and Planning* in
 contact with *Planning*, by E. Casanova,
 H. J. Schmeidler.
Journal of the American Statistical Association, Vol. 51,
 No. 1, 2, 1956, pp 51-63.
Journal of the American Statistical Association, Vol. 51, No. 1, 1956, pp 51-63.

Submitted by
 John - Pagan
 Jan 68

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KOBLITZ, W.
SCHUMACHER, H. J.

The Thermal Decomposition of F_2O ; a Monomolecular
Decomposition Represented by a Second Order Reaction.

GERMAN, Zeitschrift fuer Physik Chem, Vol XXV B, 1
1934, pp 283 - 300.

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June 1951 CTS

Schumacher, Hans J. and Sprenger, G.
THE REACTION BETWEEN NITROGEN PENTOXIDE
AND OZONE. 8 Feb 61, 20p. (fig. omitted) 23 ref.
Order from SLA \$1.60 63-10601

Trans. of Zeitschrift für Physikalische Chemie,
[Leipzig] (Germany) 1928, v. 136A, p. 77-92.

DESCRIPTORS: Chemical reactions, *Oxides, *Nitrogen
compounds, *Ozone, *Reaction kinetics, Decomposi-
tion, Molecular spectroscopy.

It is shown that a bimolecular reaction takes place
between N_2O_5 and O_3 . The reaction is probably a chain
reaction. Its rate can be represented by the equation

$$\frac{dC}{dt} = 8.7 \cdot 10^{15} e^{-\frac{22000}{RT}} \cdot C_1 \cdot C_2. \text{ It has been}$$

shown spectroscopically that with the action of ozone
(Chemistry--Physical, TT, v. 10, no. 1) (over)

63-10601

i. Schumacher, H. J.
ii. Sprenger, G.

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The Photochemical Formation of Carbon
Tetrachloride From Chloroform and Chlorine, by
Hans-Joachim Schumacher, Kurt Wolff, 14 pp.

GERMAN, per, Z Physik Chem (Leipzig, Vol XXV B,
1934, pp 161-176.

AEC UCRL-Trans 545

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